#### **DECLARATION AND POWER OF ATTORNEY** FOR PATENT APPLICATION

ATTORNEY DOCKET NO. HP-10014757

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and

patent is sought on the NETWORK TOPOLOGY		W-1			
the specification of wh			_		
( ) was filed on Number	and wa	as US Applica as amended on	ation Serial No. or F (if	PCT Internationa applicable).	I Application
I hereby state that I he including the claims, a disclose all information	is amende	ed bv anv amendment	<ul><li>(s) referred to abo</li></ul>	ve. Lacknowle	ed specificatio dge the duty
Foreign Application(s) and for					
I hereby claim foreign priori inventor(s) certificate listed t filing date before that of the	below and h	ave also identified below an	y foreign application for	any foreign applica patent or inventor(s	ation(s) for patent s) certificate having
COUNTRY		APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED	UNDER 35 U.S.C. 119
				YES:	NO:
				YES:	NO:
Provisional Application					
I hereby claim the benefit u below:	nder Title 3	5, United States Code Sect	ion 119(e) of any Unite	ed States provisiona	l application(s) list
	APPLI	CATION SERIAL NUMBER	FILING DATE		
	***************************************				
I hereby claim the benefit u insofar as the subject matte manner provided by the first information as defined in Titl	r of each of t paragraph le 37, Code	the claims of this application of Title 35, United States (of Federal Regulations, Sec	on is not disclosed in t Code Section 112, I act tion 1.56(a) which occu	he prior United Stat knowledge the duty	es application in t
I hereby claim the benefit u insofar as the subject matte manner provided by the first information as defined in Titl application and the national o	r of each of t paragraph le 37, Code or PCT intern	the claims of this application of Title 35, United States (of Federal Regulations, Secuational filing date of this appropriate of the security	on is not disclosed in t Code Section 112, I act tion 1.56(a) which occu plication:	he prior United Stat knowledge the duty urred between the fi	es application in t to disclose mater ling date of the pr
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I hereby claim the benefit u insofar as the subject matte manner provided by the first information as defined in Titl application and the national o	r of each of t paragraph le 37, Code or PCT intern	the claims of this application of Title 35, United States (of Federal Regulations, Secuational filing date of this appropriate of the security	on is not disclosed in t Code Section 112, I act tion 1.56(a) which occu plication:	he prior United Stat knowledge the duty urred between the fi	es application in t to disclose mater ling date of the pr
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I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Title application and the national of APPLICATION SERIAL NUMBERS As a named inventor, I herebusiness in the Patent and Trunched Customer  Send Correspondence to:	r of each of t paragraph le 37, Code or PCT interreser	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this appropriate of the following attorney(s) ite connected therewith:	on is not disclosed in toode Section 112, I action 1.56(a) which occuplication:  STATUS  Place Customer Number Bar Code	he prior United Statknowledge the duty urred between the fi (patented/pending/abandorsecute this applicat	es application in t to disclose mater ling date of the pr
I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Title application and the national of APPLICATION SERIAL NUMBER AS a named inventor, I herebusiness in the Patent and Truck Customer  Send Correspondence to: HEWLETT-PACKARD COI	r of each of t paragraph le 37, Code or PCT interreser seeby appoint rademark Off	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this appropriate of the following attorney(s) ite connected therewith:	on is not disclosed in toode Section 112, I action 1.56(a) which occuplication:  STATUS  Place Customer Number Bar Code Label here  Direct Telephon	he prior United Statknowledge the duty urred between the fi (patented/pending/abandor secute this applicat e Calls To:	es application in t to disclose mater ling date of the pr
I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Title application and the national of APPLICATION SERIAL NUMBER OF ATTORNEY:  As a named inventor, I herebusiness in the Patent and Trustoner  Send Correspondence to: HEW LETT-PACKARD COUNTERLECTURE Property Adm P.O. Box 272400	r of each of t paragraph le 37, Code or PCT interreser leby appoint ademark Off Number	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this appropriate of the following attorney(s) ite connected therewith:	on is not disclosed in to Code Section 112, I action 1.56(a) which occupilication:  STATUS  and/or agent(s) to prost  Place Customer Number Bar Code Label here  Direct Telephon  JAMES P. HAO	he prior United Statknowledge the duty urred between the fi (patented/pending/abandorsecute this applicate Calls To:	es application in t to disclose mater ling date of the pr
I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Title application and the national of APPLICATION SERIAL NUMBER OF ATTORNEY:  As a named inventor, I herebusiness in the Patent and Treceive and Trec	r of each of t paragraph le 37, Code or PCT interreser leby appoint ademark Off Number	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this appropriate of the following attorney(s) ite connected therewith:	on is not disclosed in toode Section 112, I action 1.56(a) which occuplication:  STATUS  Place Customer Number Bar Code Label here  Direct Telephon	he prior United Statknowledge the duty urred between the fi (patented/pending/abandorsecute this applicate Calls To:	es application in t to disclose mater ling date of the pr
I hereby claim the benefit u insofar as the subject matter manner provided by the first information as defined in Titl application and the national of APPLICATION SERIAL NUME  POWER OF ATTORNEY: As a named inventor, I herebusiness in the Patent and Trunch Customer  Send Correspondence to: HEWLETT-PACKARD COI Intellectual Property Adm P.O. Box 272400	r of each of t paragraph le 37, Code or PCT interreser leby appoint ademark Off lumber leby le 27-2400 ll statement belief allful false 1001 of	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this application of Title DATE  the following attorney(s) frice connected therewith:  022879  ents made herein of mare believed to be true; statements and the like Title 18 of the United	and/or agent(s) to pros  Place Customer Number Bar Code Label here  Direct Telephon  JAMES P. HAO (408) 938-9060  y own knowledge and further that the so made are pun States Code and fit	he prior United Statknowledge the duty urred between the fi (patented/pending/abandor secute this applicate the Calls To:  are true and the sess statements in the pat such willful in the case of the	es application in to disclose matering date of the promed)  ion and transact  at all statemen
I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Titiapplication and the national of APPLICATION SERIAL NUMBER OF ATTORNEY: As a named inventor, I hereby designed in the Patent and Truck Customer  Send Correspondence to: HEW LETT-PACKARD Collintellectual Property Adm P.O. Box 272400 Fort Collins, Colorado 80  I hereby declare that a made on information are the knowledge that will or both, under Section may jeopardize the valid	r of each of the paragraph le 37, Code or PCT interreser leby appoint ademark Off le 1827-2400 ll statement belief allful false 1001 of dity of the	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this application of the following attorney(s) fice connected therewith:  1. **Content of the connected therewith of the believed to be true; statements and the like application or any patents of the United of application or any patents of the United of application or any patents of the United of the United of application or any patents of the United o	and/or agent(s) to pros  Place Customer Number Bar Code Label here  Direct Telephon  JAMES P. HAO (408) 938-9060  y own knowledge and further that the so made are pun States Code and fit	he prior United Statknowledge the duty urred between the fi (patented/pending/abandor secute this applicate e Calls To:  are true and that hese statements ishable by fine conat such willful	es application in to disclose matering date of the promed)  ion and transact  at all statemen
I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Titical application and the national of APPLICATION SERIAL NUMBER AS a named inventor, I hereby claims in the Patent and Transcription of the property Adm P.O. Box 272400 Fort Collins, Colorado 80 I hereby declare that a made on information are the knowledge that will or both, under Section may jeopardize the valid Full Name of Inventor:  JUL	r of each of the paragraph le 37, Code or PCT interreser leby appoint ademark Off le 1827-2400 l	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this application of the following attorney(s) fice connected therewith:  1. **Content of the connected therewith of the believed to be true; statements and the like application or any patents of the United of application or any patents of the United of application or any patents of the United of the United of application or any patents of the United o	and/or agent(s) to pros  Place Customer Number Bar Code Label here  Direct Telephon  JAMES P. HAO  (408) 938-9060  y own knowledge and further that the so made are pun States Code and the ent issued thereon.  Citizenship: U:	he prior United Statknowledge the duty urred between the fi (patented/pending/abandor secute this applicate e Calls To:  are true and that hese statements ishable by fine conat such willful	es application in to disclose matering date of the promed)  ion and transact  at all statemen
I hereby claim the benefit use insofar as the subject matter manner provided by the first information as defined in Titl application and the national of APPLICATION SERIAL NUMBER OF ATTORNEY:  As a named inventor, I herebusiness in the Patent and Truck Customer  Send Correspondence to: HEWLETT-PACKARD COUNTER Intellectual Property Adm P.O. Box 272400 Fort Collins, Colorado 80  I hereby declare that a made on information are the knowledge that will or both, under Section may jeopardize the valid Full Name of Inventor:  JUL Residence:  64	r of each of t paragraph le 37, Code or PCT interresers  reby appoint ademark Off  Number  MPANY inistration  0527-2400  Il statement belief a liful false 1001 of dity of the lift of the	the claims of this application of Title 35, United States (of Federal Regulations, Sectiational filing date of this application of the following attorney(s) fice connected therewith:  1. **Control of the United Control of the Ison of the United Control of the United Control of the Ison of the Ison of the Ison of the United Control of the Ison of Is	and/or agent(s) to pros  Place Customer Number Bar Code Label here  Direct Telephon  JAMES P. HAO  (408) 938-9060  y own knowledge and further that the so made are pun States Code and the ent issued thereon.  Citizenship: U:	he prior United Statknowledge the duty urred between the fi (patented/pending/abandor secute this applicate e Calls To:  are true and that hese statements ishable by fine conat such willful	es application in to disclose matering date of the promed)  ion and transact  at all statemen

Rev 10/00 (DecPwr)

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (continued)

### ATTORNEY DOCKET NO. HP-10014757

	Full Name of # 2 joint inventor:	SHARAD SINGHAL		Citizenship:	USA		
	Residence:	11 WAKEFIELD COURT, BELMONT, C	A 9	94002			
Po	Post Office Address:	SAME AS RESIDENCE					
	Inventor's Signature	Date	<del>)</del>				
	Full Name of # 3 joint inventor:	JEROME ROLIA	·	_ Citizenship:	CANADIAN		
	Residence:	13 WHITHORN AVE., KANATA ONTARIO CANADA K2K 3B2					
	Post Office Address:	SAME AS RESIDENCE					
	Inventor e Signature						
	Inventor's Signature	Date	9				
	Full Name of # 4 joint inventor:			_ Citizenship:			
i de	Residence:						
T T	Post Office Address:						
iii	Inventor's Signature	Dat	e				
L.			-				
den den	Full Name of # 5 joint inventor:			Citizenship:			
	Residence:	****					
15 15 15 15 15 15 15 15 15 15 15 15 15 1	Post Office Address:						
Z	rost Office Address.						
AND THE REAL PROPERTY.	Inventor's Signature	Dat	e				
	Full Name of # 6 joint inventor:			_ Citizenship:			
	Residence:						
	Post Office Address:						
	Inventor's Signature						
	Inventor's Signature	Dat	е		···		
	Full Name of # 7 to 1 to 1			<b></b>			
	Full Name of # 7 joint inventor:		****	_ Citizenship:			
	Residence:						
	Post Office Address:						
	Inventor's Signature	Dat	e				
	Full Name of #8 joint inventor:			Citizenship:			
	Residence:						
	Post Office Address:	-					
	Inventor's Signature	Dat	e				

#### **DECLARATION AND POWER OF ATTORNEY** FOR PATENT APPLICATION

ATTORNEY DOCKET NO. HP-10014757

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and

	joint inventor (if plur patent is sought on the NETWORK TOPOLOG	he inventio	n entitled:	e subject matter wh	ich is claimed and for which a			
	the specification of which is attached hereto unless the following box is checked:							
	( ) was filed on as US Application Serial No. or PCT International Application Number and was amended on (if applicable).							
	including the claims,	as ameno on which is	led by any amendmen material to patentabili	t(s) referred to above	e above-identified specification, ve. I acknowledge the duty to FR 1.56.			
	I hereby claim foreign price	ority benefits	under Title 35, United Stat	tes Code Section 119 of	any foreign application(s) for patent or			
	inventor(s) certificate liste filing date before that of the	d below and he application	have also identified below and the control of the c	ny foreign application for <sub>l</sub> d:	patent or inventor(s) certificate having a			
	COUNTRY		APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U S C. 119			
45 MAI					YES: NO:			
J			- 444-Port 25 80mm - c		YES: NO:			
200	Provisional Application	<del> </del>						
20 2521	I hereby claim the benefit below:	t under Title	35, United States Code Sec	ction 119(e) of any Unite	d States provisional application(s) listed			
W		APP	LICATION SERIAL NUMBER	FILING DATE				
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	U. S. Priority Claim	L		, · · · · · · · · · · · · · · · · · · ·				
	manner provided by the finformation as defined in	irst paragrapl Title 37, Cod	n of Title 35, United States	Code Section 112, I ack ection 1.56(a) which occu	ne prior United States application in the snowledge the duty to disclose material rred between the filing date of the prior			
13	APPLICATION SERIAL N	UMBER	FILING DATE	STATUS	(patented/pending/abandoned)			
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	**************************************							
			nt the following attorney(s	) and/or agent(s) to pros	secute this application and transact all			
	Custom	er Number	022879	Place Customer Number Bar Code Label here				
	Send Correspondence			Direct Telephone	e Calls To:			
	HEW LETT-PA CKARD ( Intellectual Property A			JAMES P. HAO				
	P.O. Box 272400	ammstation						
	Fort Collins, Colorado	80527-2400	)	(408) 938-9060	'			
	I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
	Full Name of Inventor:	ULIE ANN	A SYMONS	Citizenship: U	SA			
	Residence:	647 FALL	ON AVE., SANTA CLA	RA, CA 95050				
	Post Office Address: SAME AS RESIDENCE							

Inventor's Signature

Date

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (continued)

### ATTORNEY DOCKET NO. HP-10014757

	Full Name of # 2 joint inventor:	SHARAD SINGHAL		Citizenship:	USA
	Residence:	11 WAKEFIELD COURT, BELMONT,	CA 9	4002	
	Post Office Address:	SAME AS RESIDENCE			
		Suital		9/201	01
	Inventor's Signature	Da	te	1/000/	
	Full Name of # 3 joint inventor:	JEROME ROLIA		Citizenship:	CANADIAN
	Residence:	13 WHITHORN AVE., KANATA ONT	ARIO	CANADA K	2K 3B2
	Post Office Address:	SAME AS RESIDENCE			
	Inventor's Signature	Da	ite		
	Full Name of # 4 joint inventor:			Citizenship:	
enj.	Residence:				
	Post Office Address:				
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T L	Inventor's Signature	Da	ate		
ű					
Ü	Full Name of # 5 joint inventor:			Citizenship:_	
1.3	Residence:				
	Post Office Address:				
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	Inventor's Signature	Di	ate		
7					
272	Full Name of # 6 joint inventor	·		Citizenship:_	
	Residence:				
	Post Office Address:				
	Inventor's Signature		ate		
	omor o organismo	D.	ale		
	<b>- </b>				
	Full Name of # 7 joint inventor	:		Citizenship:_	A MARKATA MANAGA A SANSA A SAN
	Residence:				
	Post Office Address:			*** ** ** ******	
	Inventor's Signature		ate		
		_			
	Full Name of # 8 joint inventor	<del>-</del>		Citizenship:	
	Residence:	•		·	
	Post Office Address:				
	Inventor's Signature		ate		

### **DECLARATION AND POWER OF ATTORNEY** FOR PATENT APPLICATION

ATTORNEY DOCKET NO. HP-10014757

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the origin joint inventor (if plural patent is sought on the NETWORK TOPOLOGY	names a invention	ire listed below) of the n entitled:	y one name is listed subject matter whi	below) or an original, first ch is claimed and for whi	and ch a
	_ and w	as US Applica as amended on	ation Serial No. or PC (if a	CT International Application oplicable).	
I hereby state that I h including the claims, a disclose all information	ave revi s amend which is	ewed and understood led by any amendment material to patentabilit	the contents of the (s) referred to abov y as defined in 37 C	above-identified specifica e. I acknowledge the du FR 1.56.	ty to
Foreign Application(s) and/or I hereby claim foreign priorit inventor(s) certificate listed by filing date before that of the	y benefits below and	under Title 35, United State have also identified below an	y toreign application for p	any foreign application(s) for pat patent or inventor(s) certificate ha	ent or wing a
COUNTRY		APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C.	119
				YES: NO:	
				YES: NO:	
Provisional Application					
thereby claim the benefit unlesses.	nder Title	35, United States Code Sec	tion 119(e) of any United	d States provisional application(s	) listed
1	APF	LICATION SERIAL NUMBER	FILING DATE		
U. S. Priority Claim	L				
e e la	inder Title	35, United States Code, Se	ection 120 of any United	States application(s) listed below	wand, in the
Fire ided by the fire	+ naragran	h of Title 35 United States	Code Section 112. Fact	ne prior United States application nowledge the duty to disclose n	lateriai
information as defined in Tit	le 37. Coc	le of Federal Regulations, Se	ction 1.56(a) which occu	rred between the filing date of th	e prior
application and the national	or PCT inte	ernational filing date of this a	pplication:		
APPLICATION SERIAL NUM	BER	FILING DATE	STATUS	(patented/pending/abandoned)	
					l
As a named inventor, I he business in the Patent and T	reby appo rademark	int the following attorney(s Office connected therewith:		secute this application and trans	sact all
Custome	r Number	022879	Place Customer Number Bar Code Label here		
Send Correspondence to	):		Direct Telephon	e Calls To:	
HEW LETT-PACKARD CO	OMPA NY		JAMES P. HAC	THOMAS X. LI	1
Intellectual Property Add P.O. Box 272400	ministratioi	1		(650)857-5288	Ì
Fort Collins, Colorado 8	30527-240	0	(408) 938-906	<b>y</b> (030) 11 1	
I hereby declare that	all state	ments made herein of	my own knowledge	are true and that all state	ments
the knowledge that w	illful fals n 1001 (	a chatamante and the	like so made are pui d States Code and f	hese statements were mad nishable by fine or imprisor hat such willful false state	men.
Full Name of Inventor: JL			Citizenship:	ISA	<del></del>
Residence: 6	47 FALI	<u>ON AVE., SANTA CLA</u>	RA, CA 95050		
Post Office Address:	SAME AS	RESIDENCE			
Inventor's Signature			Date		

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (continued)

ATTORNEY DOCKET NO. HP-10014757

Full Name of # 2 joint inventor:	SHARAD SINGHAL		Citizenship: USA
	11 WAKEFIELD COURT, BELN	IONT, CA	94002
	SAME AS RESIDENCE		
Post Office Address:	Name of the second seco		
Inventor's Signature		Date	
Full Name of # 3 joint inventor:			Citizenship: CANADIAN
Residence:	13 WHITHORN AVE., KANAT	A ONTARIO	O CANADA K2K 3B2
Post Office Address:	SAME AS RESIDENCE		
	1 Coli	<del></del>	Sept 20, 2001
Inventor's Signature		Date	
Full Name of # 4 joint inventor:		<u> </u>	Citizenship:
Residence:			
Post Office Address:			
Inventor's Signature		Date	
Full Name of # 5 joint inventor	:		Citizenship:
Residence:			
Post Office Address:			
Inventor's Signature		Date	
:			
Full Name of # 6 joint inventor			Citizenship:
Residence:			
Post Office Address:			
Inventor's Signature		Date	
myentor a aignature		Date	
			Citizenship:
Full Name of # 7 joint invento	r:		Orthonop.
Residence:			
Post Office Address:			
Inventor's Signature		Date	
Full Name of #8 joint invento	or:		Citizenship:
Residence:	<u> </u>		
Post Office Address:			
rost Office Address.	- We-		
Inventor's Signature		Date	